

Highly Erodible Soil Map Unit List - Kittson County, MN

C = .30

R = 70

This data is only to be used for HEL determinations.

This is the "frozen data" based on 01/01/1990 information. Values other than "HELC" should only be used for PHEL.

Mapunit

Symbol	Mapunit Name	HELC	T	K	I
1002	Alluvial land, 0 to 2 percent slopes, flooded	NHEL	5	0.2	56
I110A	Augsburg and Colvin soils, very poorly drained, 0 to 1 percent slopes	NHEL	4	0.3	86
I112A	Augsburg very fine sandy loam, 0 to 2 percent slopes	NHEL	4	0.3	86
I119A	Bearden silty clay loam, 0 to 1 percent slopes	NHEL	5	0.3	86
I123A	Bearden-Colvin silty clay loams, 0 to 2 percent slopes	NHEL	5	0.3	86
I131B	Bearden-Lamoure, flooded, silty clay loams, 0 to 6 percent slopes	NHEL	5	0.3	86
I99A	Berner muck, dense till, 0 to 1 percent slopes	HEL	5	0.0	134
I79A	Berner, Cathro, and Haug soils, ponded, dense till, 0 to 1 percent slopes	HEL	5	0.0	134
I122A	Borup-Rosewood complex, 0 to 2 percent slopes	NHEL	4	0.3	86
1006	Breaks and Alluvial land, flooded, 0 to 3 percent slopes	PHEL	5	0.2	56
50	Cashel clay, 0 to 2 percent slopes, flooded	NHEL	5	0.3	86
I293B	Cashel silty clay, 0 to 6 percent slopes, occasionally flooded	NHEL	5	0.3	86
I136F	Cashel-Lallie-Wahpeton silty clays, 0 to 15 percent slopes, flooded	NHEL	5	0.3	86
I82A	Cathro muck, dense till, 0 to 1 percent slopes	HEL	5	0.0	134
I139A	Colvin silty clay loam, 0 to 1 percent slopes	NHEL	5	0.3	86
I376A	Colvin silty clay loam, 0 to 1 percent slopes	NHEL	5	0.3	86
I124A	Colvin-Fargo complex, 0 to 2 percent slopes	NHEL	5	0.3	86
I100A	Cormant and Rosewood soils, depressional, dense till, 0 to 1 percent slopes	HEL	5	0.2	134
I97A	Cormant loamy fine sand, dense till, 0 to 2 percent slopes	HEL	5	0.2	134
I77A	Deerwood muck, dense till, 0 to 1 percent slopes	HEL	3	0.0	134
I129A	Donaldson very fine sandy loam, 0 to 3 percent slopes	NHEL	4	0.2	86
I200F	Dumps, Sanitary Landfill-Udorthents complex, 0 to 60 percent slopes	HEL			
I904F	Dumps, Sanitary Landfill-Udorthents complex, 0 to 60 percent slopes	HEL			
I106A	Enstrom loamy fine sand, dense till, 0 to 3 percent slopes	HEL	5	0.2	134
I13A	Espelie fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86
I745A	Espelie fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86
I235A	Fargo silty clay, depressional, 0 to 1 percent slopes	NHEL	5	0.3	86
I138A	Fargo silty clay, very poorly drained, 0 to 1 percent slopes	NHEL	5	0.3	86
I109A	Fluvaquents, 0 to 2 percent slopes, flooded	NHEL	5	0.3	86
I16F	Fluvaquents, flooded-Hapludolls complex, 0 to 30 percent slopes	NHEL	5	0.3	86
I16F	Fluvaquents,frequently flooded-Hapludolls complex, 0 to 30 percent slopes	NHEL	5	0.3	86
I114A	Foldahl fine sandy loam, dense till, 0 to 3 percent slopes	NHEL	5	0.2	86
I101A	Foxhome sandy loam, dense till, 0 to 3 percent slopes	HEL	3	0.2	86
I115A	Garnes fine sandy loam, dense till, 0 to 3 percent slopes, very stony	NHEL	5	0.3	86
I704A	Glyndon very fine sandy loam, 0 to 1 percent slopes	NHEL	5	0.3	86

I121A	Glyndon-Ulen complex, 0 to 2 percent slopes	NHEL	5	0.3	86
I92A	Grano clay, dense till, 0 to 2 percent slopes	NHEL	5	0.3	86
I744A	Grano loam, 0 to 2 percent slopes	NHEL	5	0.3	86
I113A	Grimstad fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86
I116A	Grygla loamy fine sand, dense till, 0 to 2 percent slopes	HEL	5	0.2	134
I105A	Hangaard sandy loam, dense till, 0 to 2 percent slopes	HEL	2	0.2	86
I773A	Hapludolls-Fluvaquents, occasionally flooded complex, 0 to 6 percent slopes	NHEL	5	0.3	86
I88A	Haug muck, 0 to 1 percent slopes	HEL	5	0.0	134
I15A	Hecla loamy fine sand, 0 to 3 percent slopes	NHEL	5	0.17	134
I130A	Hegne-Fargo silty clays, 0 to 2 percent slopes	NHEL	5	0.3	86
I134A	Hegne-Fargo silty clays, silty substratum, 0 to 2 percent slopes	NHEL	5	0.3	86
I32A	Hilaire fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86
I34A	Huot fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86
I765A	Huot fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86
I76A	Karlstad loamy sand, 0 to 3 percent slopes	HEL	3	0.2	134
I80B	Karlstad-Marquette complex, 0 to 8 percent slopes	HEL	2	0.2	134
I95A	Kratka and Strathcona soils, depressional, dense till, 0 to 1 percent slopes	NHEL	5	0.2	86
I103A	Kratka fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86
I40B	Maddock loamy fine sand, 1 to 6 percent slopes	HEL	5	0.2	134
I41A	Markey muck, 0 to 1 percent slopes	HEL	4	0.0	134
I42A	Markey muck, ponded, 0 to 1 percent slopes	NHEL	4	0.0	134
I78B	Marquette loamy sand, 1 to 8 percent slopes	HEL	2	0.2	134
I102A	Mavie fine sandy loam, dense till, 0 to 2 percent slopes	HEL	3	0.2	86
M-W	Miscellaneous water	NHEL			
IM-W	Miscellaneous water	NHEL			
I126A	Nereson fine sandy loam, 0 to 3 percent slopes	NHEL	5	0.2	86
I89A	Nereson fine sandy loam, 0 to 3 percent slopes, very cobbly	NHEL	5	0.2	86
I133A	Northcote clay, 0 to 1 percent slopes	NHEL	5	0.3	86
429B	Northcote clay, 2 to 6 percent slopes	NHEL	5	0.3	86
I140A	Northcote clay, saline, 0 to 2 percent slopes	NHEL	5	0.3	86
I120A	Northcote clay, very poorly drained, 0 to 1 percent slopes	NHEL	5	0.3	86
I132A	Northcote-Eaglepoint clays, 0 to 2 percent slopes	NHEL	5	0.3	86
I145A	Northcote-Eaglepoint clays, saline, 0 to 2 percent slopes	NHEL	5	0.3	86
I81A	Northwood muck, dense till, 0 to 1 percent slopes	HEL	3	0.0	134
I128A	Noyes sandy clay loam, 0 to 2 percent slopes	NHEL	3	0.3	56
I87A	Pelan sandy loam, dense till, 0 to 3 percent slopes	HEL	3	0.2	134
I127A	Percy loam, 0 to 2 percent slopes	NHEL	5	0.3	56
I85A	Percy loam, 0 to 2 percent slopes, bouldery	NHEL	5	0.3	56
I84A	Percy loam, 0 to 2 percent slopes, very cobbly	NHEL	5	0.3	56
I86A	Percy mucky loam, depressional, 0 to 1 percent slopes	NHEL	5	0.3	56
IGp	Pits, gravel and sand	NHEL			
I47A	Poppleton fine sand, 0 to 3 percent slopes	HEL	5	0.2	134
I118A	Poppleton fine sand, dense till, 0 to 2 percent slopes	HEL	5	0.2	134

I48A	Radium loamy sand, 0 to 3 percent slopes	HEL	2	0.2	86
I75A	Radium-Sandberg-Garborg complex, 0 to 3 percent slopes	HEL	2	0.2	86
I90A	Redby loamy fine sand, dense till, 0 to 3 percent slopes	HEL	5	0.2	134
I91A	Rosewood fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86
I57B	Sandberg-Radium complex, 1 to 6 percent slopes	HEL	2	0.2	86
I96D	Serden-Aylmer-Bantry complex, 0 to 9 percent slopes	HEL	5	0.2	134
I137B	Sinai-Ludden, flooded, clays, very-fine family, 0 to 6 percent slopes	NHEL	5	0.3	86
I141B	Sinai-Ludden, flooded, complex, 0 to 6 percent slopes	NHEL	5	0.3	86
I125A	Skagen loam, 0 to 3 percent slopes	NHEL	5	0.3	56
I117A	Skagen loam, 0 to 3 percent slopes, very cobbly	NHEL	5	0.3	56
I104A	Strandquist loam, dense till, 0 to 2 percent slopes	HEL	3	0.2	86
I94A	Strathcona fine sandy loam, dense till, 0 to 2 percent slopes	NHEL	5	0.2	86
I107A	Syrene mucky sandy loam, depressional, dense till, 0 to 1 percent slopes	HEL	3	0.2	86
I108A	Syrene sandy loam, dense till, 0 to 2 percent slopes	HEL	3	0.2	86
I63A	Thiefriever fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86
I850A	Thiefriever fine sandy loam, 0 to 2 percent slopes	NHEL	5	0.2	86
I98A	Ulen fine sandy loam, dense till, 0 to 3 percent slopes	NHEL	5	0.2	86
I93A	Viking clay loam, dense till, 0 to 2 percent slopes	NHEL	5	0.3	86
157	Wahpeton silty clay, 0 to 2 percent slopes, flooded	NHEL	5	0.3	86
I248A	Wahpeton silty clay, 0 to 2 percent slopes, occasionally flooded	NHEL	5	0.3	86
I135A	Wahpeton silty clay, 0 to 3 percent slopes, flooded	NHEL	5	0.3	86
157B	Wahpeton silty clay, 2 to 6 percent slopes, flooded	NHEL	5	0.3	86
I248B	Wahpeton silty clay, 2 to 6 percent slopes, occasionally flooded	NHEL	5	0.3	86
I135B	Wahpeton-Ludden silty clays, 0 to 6 percent slopes, flooded	NHEL	5	0.3	86
W	Water	NHEL			
IWa	Water	NHEL			
I111A	Wheatville very fine sandy loam, 0 to 3 percent slopes	NHEL	4	0.3	86
I83A	Wildwood muck, dense till, 0 to 1 percent slopes	HEL	3	0.0	134